National Institute of Standards and Technology

INTERNATIONAL BIOMETRIC PERFORMANCE CONFERENCE

Evaluation and Performance of Biometric Technologies

National Physical Laboratory

May 3-6, 2016

FINAL PROGRAM

European Association for Biometrics

eab

Human Identity in Europe

NIST, NPL and the EAB are happy to announce the agenda for the IBPC 2016 conference on performance and testing of biometric systems. The forum will bring together evaluators, users, technology providers to discuss performance in applications that embed biometric functions or component. The conference aims to detail developments in *how* systems are being tested, certified, upgraded and improved rather than to snapshot specific testing or research results. The conference specifically includes talks on Automated Border Control, a rapidly growing application of front-end and back-end biometric technology today, and emerging biometric uses. The talks will target operationally relevant and desirable themes, and will give emphasis to design, procurement, and what operators require from test and evaluation activities. The conference aims to advance future use of biometrics by sifting salient points from the accumulated experience of the last decade, to identify novel evaluation methodologies and recent trends in testing, and to determine what is most operationally relevant in the context of the contemporary and emerging marketplaces.

Program Committee:
Patrick Grother, Elham Tabassi, NIST, US
Tony Mansfield, NPL, UK
Christoph Busch, EAB, DE

Speakers:
Research and development staff, system analysts, users, evaluators, planners, writers of technical specifications, standards developers and adopters.

Target audience:
Professionals concerned with biometric system evaluation, procurement, deployment, maintenance, design, configuration, integration, standardization, research and development.

Homeland Security
Science and Technology

Main Conference, May 3-5	Satellite Session, May 5-6
IBPC 2016 Conference	Technical Colloquium: Quantifying the weight of forensic evidence
Red Auditorium, NIST	Green Auditorium, NIST
08:30 – 18:00	09:00 – 17:00

Registration	**https://www.fbcinc.com/e/NIST/IBPC/attendeereg.aspx**	**Registration Deadline:** **April 26 2016 at 5.00PM EDT.**
Hotels + Logistics	**http://www.nist.gov/itl/iad/ig/ibpc_logistics.cfm**	
Maps + Directions	**http://www.nist.gov/public_affairs/visitor/index.cfm**	
IBPC 2016 Homepage	**http://www.nist.gov/itl/iad/ig/ibpc2016.cfm**	

	IBPC 2016 - Tuesday May 3		IBPC 2016 - Wednesday May 4		IBPC 2016 - Thursday May 5 Concurrent with Evidential Value Workshop
	0800 Continental Breakfast		0800 Continental Breakfast		0800 Continental Breakfast
	0830 Introductions, welcome address, and logistics		0830 Review of day 1, polls, question and answer		0830 Review of day 2, polls, question and answer
Gov	0845 **Nick Megna**, FBI, Update on activities of the FBI Biometrics Center of Excellence 01		0845 **Amanda Sozer** + **Chris Miles**, SNA International + DHS S&T, Evaluation of rapid DNA kinship performance 01		0845 **Jim Wayman** San Jose State University, Performance of Smartgate Australia 01
	0910 **Jim Cole**, DHS Homeland Security Investigations, Expanding the role of analytics in child exploitation cases 02		0910 **Jean-Christoph Fondeur**, Morpho, Advances, challenges and opportunities in contactless fingerprint capture 02		0905 **Dan Bachenheimer**, Accenture, Use of biometrics in migration: UN High Commission on Refugees 02
Speaker	0935 **Tony Mansfield**, NPL, SPOKE - Collecting operationally representative voice recordings for speaker recognition evaluation 03		0935 **Stephen Fox**, AOS, Quantifying performance of non-contact fingerprinting 03		0930 **Fares Rahmun**, Bundesverwaltungsamt, EU Smart Borders – German pilot experience 03
	1000 **Vince Stanford**, NIST, Design of the upcoming Speaker Recognition Vendor Test 2016 04		1000 **Chris Boehnen**, IARPA, Overview of the Odin program on presentation attack detection 04		0955 **Dan Bachenheimer**, Accenture, EU Smart Borders – Finland pilot experience 04
	1030 Break	Fingerprints	1005 Break	Border	1020 Break
Mobile	1100 **Neil Costigan**, BehavioSec, Accuracy for behavioral authentication for native mobile application 05		1040 **Rick Lazarick and Patty Wolfhope**, CSRA + DHS S&T, Evaluation of 'non-traditional' fingerprint sensor performance 05		1050 **Arun Vemury**, DHS S&T Air Entry Exit Re-engineering, Biometric concepts of operation in the airport environment 05
	1125 **Jonas Anderson**, Fingerprint Cards AB, Performance testing and validation for biometrics in consumer products, mobile phones 06		1110 **Roberto Wolfer, Frank Dittrich, Thomas Seeling, Daniel Schubert,** Jenetric + TU Chemnitz, Investigations on reducing the failure-to-enroll rate for fingerprint scanners by means of user-centered interaction design 06		1100 **Jacob Hasselgren**, Scitor (SAIC), Scenario tests for immigration exit 06
	1150 **Oscar Miguel**, University of Kent, Users-Centric Design: introducing remote usability evaluation in mobile settings 07		1135 **Anil Jain**, Michigan State University, Fingerprint recognition in young children: An option for UID, others? 07		1120 **Yevgeniy Sirotin**, Scitor (SAIC), Usability and user perceptions of self-service biometric technologies 07
	1215 **Elaine Newton, Kevin Mangold, Colin Soutar**, NIST + Deloitte, Determining strength of biometric authentication 08		1200 **Stephen Elliott**, Purdue University, Human Biometric Sensor Interaction, latest research and Process HBSI 08		1145 **Kevin McCarthy**, MITRE, The Business Case for Biometric Identification Solutions? 08
					1210 **Yevgeniy Sirotin**, Scitor (SAIC), Efficient test design for biometric exit scenarios 09
	1240 Lunch		1225 Lunch		1235 Lunch
Metrics	1345 **Andreas Nautsch** and **Daniel Ramos,** CASED and Universidad Autónoma de Madrid, UAM, Making decisions with biometric systems: the utility of a bayesian perspective 09	Vulnerabilities	1330 **Ines Goicoechea-Telleria**, U Carlos III Madrid, An evaluation of Presentation Attack Detection of fingerprint biometric systems applying ISO/IEC 30107-3 09	Face	1340 **Artem Kukharenko**, N-Tech. Lab. Facenx: Real time planetary scale face recognition system 10
	1410 **Ted Dunstone + Joshua Abraham**, Biometix, Improving identity resolution accuracy by exploiting relationships between quality attributes and matching scores to optimise candidate lists 10		1355 **Elaine Newton and Stephanie Schuckers** NIST + Clarkson U, Recommendations for Presentation Attack Detection: Mitigation of threats due to spoof attacks 10		1410 **Jonathon Phillips**, NIST, Evaluation of human face recognition performance 11
	1435 **Brian DeCann,** Noblis, Pitfalls in ROC analysis when evaluating normalized 1:N matcher scores 11		1420 **Akira Otsuka and Tetsushi Ohki**, AIST, Security Evaluation of vascular biometrics 11		1440 **Michael Thieme**, Novetta, Performance testing for synthesized and processed face images 12
	1500 **Arun Ross**, Michigan State University, Relating ROC Curves and CMC Curves 12		1445 **Christoph Busch + Michael Thieme**, CASED + Novetta, The ISO/IEC 30107-3 standard for testing of presentation attack detection - applied to fingerprint alteration detection 12		
	1525 Break		1510 Break		1510 Break
Operations	1555 **Judith Liu-Jimenez**, U. Carlos III Madrid, "The Madrid Study", a comparative test of fingerprint sensors + algorithms 13	Quality	1540 **Elham Tabassi**, NIST, NFIQ 2.0 Design, implementation and performance evaluation 13	Border	1540 **Çağatay Karabat**, S&T Research Council, Turkey, Status of biometric passports in Turkey + border security challenges
	1620 **Antoine Cabana**, ENSICAEN, Assessing methodology for operational testing + evaluation on biometric black boxes 14		1555 **Timo Ruhland**, Federal Criminal Police Office (BKA), Validation of NFIQ on massive archival datasets 14		1605 **Dan Bachenheimer**, Accenture, Beyond eGates: Passive face recognition of travelers in crowds 14
	1645 **Ramon Blanco-Gonzalo**, U. Carlos III Madrid, Usability evaluation of biometric recognition systems 15		1620 **Martin Olsen**, Norwegian U. of Science and Technology, NFIQ 2.0 Features for fingerprint quality determination 15		1630 **Patrick Grother**, NIST, Passive face recognition for immigration exit? 15
			1645 **Christophe Rosenberger,** ENSICAEN, Pixel pruning for fingerprint quality assessment 16		
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